Sanitized Copy Approved for Release 2011/06/29 : CIA-RDP80-00809A000600200009-1

CLASSIFICATION MESTRICTED

MENTRAL INTELLIGENCE AGENCY INFORMA**NISTALGED**ORT

STAT

COUNTRY

USSR

SUBJECT Scientific Research

DATE DISTR. 12 May 1948

NO. OF PAGES 2

PLACE ACQUIRED USSR

NO. OF ENCLS.

1709.3 JA

DATE OF **Information**

1945-47

SUPPLEMENT TO REPORT NO.

STAT

THIS IS UNEVALUATED INFORMATION FOR THE RESEARCH USE OF TRAINED INTELLIGENCE ANALYSTS

SOURCE

Documentary as indicated. (Information specifically requested.)

RECENTLY PUBLICATED SOVIET RESEARCH ON EMIXOT CHA SKEDITHA LALISTON

"Chemical Nature of the Group Antigens B1 and B2 of Human and Animal Blood," P.N. Kosyakov

"Byull Eksptl Biol i Lied" Vol 23, No 2, 1947, pp 93-5

Chemical semblance between 32 antigens of human subjects and animals is shown. Both are soluble in alcohol, ether, and chloroform and insoluble in acetone. Alcohol, ether, and chloroform solutions of B2 are from proteins and carbolydrates. Aqueon B2 solutions form stable emulaites. Aqueon B2 solutions form stable emulaites. Pros these properties it was assumed that these specific substances in human swojects and animals are lipoids. The other antigen component, B_{\(\)}, has a different chemical nature. It is not found in alcohol, ether, and chloroform solutions, is soluble in H₂O and, therefore, does not belong to the lipoids. The true nature of B_{\(\)} has not yet been discovered. (IT79)

"Concerning the Mechanism of Innate Assumity of Some Reptiles to Bacterial Toxins," A. G. Kratinov, 3 pp

"Blull Masport! Mel 1 Med" Vol 23, No 2, Feb 1947

Results of experiments with reptiles. (1778)

alestrict d

				J17		and the second second						
STATE		NAVY	A MASS		SISTE	BUTION	-	 				_
 ARMY	I	AIR	X		 UI3/A	BOTTON	_	 -	$ \downarrow$			_
					 	1	<u> 1 </u>	 1 1.	`	1	. 1	- 1

RE TOTAL

RESTR

STAT

"Toxin Formation in B. Perrringens," L. A. Baskina, D.I. Zakharina and ".". Galbir, Leningrad Vaccine Inst.

"Zhur Mikrobiol, "pidemiol i Immunobiol" No 7-8, 1945, pp 19-22

Stabilization of the beginning of rise of pH in the course of growth of B. perfringens provides an index to the point of maximum toxin formation. Preliminary freezing of the liver used in making liver bouillion for production of toxin raises appreciably the toxin rivulence, as does the addition of Fe. Na provate has comewhat lesser effect than Fe, while addition of cysteine or glucose gave irregular increases. Addition of vitamin C failed to increase virulence.

"Chemistry and Biochemistry of Lipoid Antigens: KI. Examination of Chemical Nature of 'True Masserman Substance," K.I. Ravieh-Sheherbo and M. V. Piskunov, Kafedra Biokhimii Kurskogo Gosudarat. Meditsinskogo Inst

Data are presented to show that the so-called "true "asserman substance," prepared by Fisher's method, is not a chemical entity but can be sharply separated into two fractions. Fraction A is a carbohydrate-phosphatide complex, while fraction B is composed of carbohydrate, purines, and pyrimidines, and nonlipoid P. Fraction A is amorphous, while fraction B is crystalline and appears to be a nulectide.

"XII. Examination of Immunobiological Properties of 'True Esserman Substance,' " E.I. Ravich-Sheherbo, Kafed Biokhisii Kurkukogo Gesudarst Eed Inst, ibid, 30-4

"True Masserman substance," obtained from the heart tissue of bulls and human subjects by Fisher's method, acts like a true antigen in the immunisation of rabbits. Similar preparations from the kidney and brain do not show this action. Fraction A of the "true Masserman substance," the carbohydratephospholipide fraction, is immunologically active, while fraction B, the crystalline nucleotide material, has no such activity.

- MID -

- 2 -

RESTRICTED

RESTRICTED